

10/509708**FIGURE 1****SEQ ID NO. 1**

```
1  GCTTGACAAC  GTCATTGAGA  ATCCCCTTGC  TACTTAGCTG  ACCTATCTAC
51  AGGCTGGGTC  AGCATAATCG  CAGCGTCGGA  CAAGGCGTGG  AGGAATCGCG
101  TCGCGACTTA  TGCAACTCCT  TCAAAACCGG  CGTCGCGCCG  CCGTGTGAAA
151  CGCAGGTCAA  TCCGCACCGG  GATGGTGATC  GGTTCAAGTC  GTCCGACCAT
201  GGGCGGTTGG  GGACCCGGAC  ACTCGAGACA  TCACCCTAG  CTGATATCAG
251  CTTTAGCTGA  TATCATGCGG  TAGTGCGGAA  ATGGGAGGTT  GACCTGACTC
301  TCATCGAAGC  CTGGATGGAT  GCCCTCAATG  ACGttgtcaa  gc
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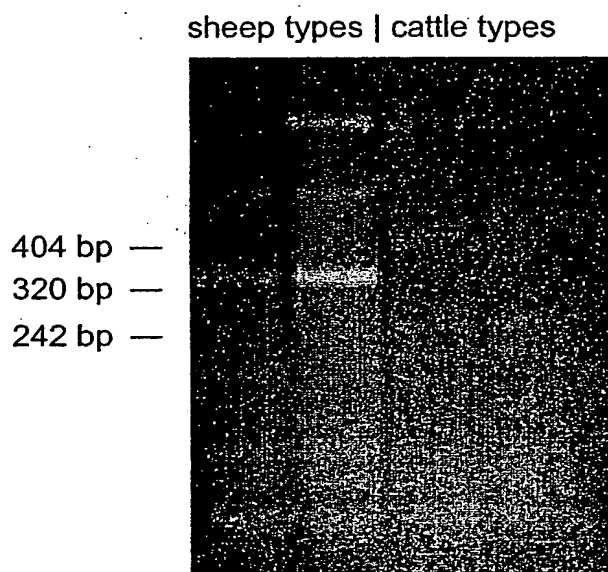
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FIGURE 2

SEQ ID NO. 2

TTGAAGTTGCCGAAGGTGCGAATCGAGCCGTCGGTGTCTGAAGGCGACGGTGTCTGATCTTG
GTGTGCGGCAGGCGCAGGAACCTCGTCGATGAGGCCAGCTCGTCCATGATCCGCAGCGTG
GTCGGATGCACGGTGTCTGCGCGGGAAGTCGCGCAGGAAGTCGTTGTGCTTTTCCAAGACG
ACGACCGGGATTCCGGCCCCGGGCGAGCAGCAGCGCGTGCACCATCCCGCGGGGACCGCCC
CCGGCAACGCACACCTGAGTCCGGATCACTTGCGCAGGCTACCTCCCGGGTCCAACCACT
AGGCCGTCCAACCTCGACGGCCGCTACAGAGCTACACGAGCCCCGCGCGAGAACATCGAG
TCATGGAACCTCTATCGCTTCCGGCACCAGCGCCCCGGCGGGATGTCTGAACGAGACGCTCCCA
TCCATACCGAGGCCAGGGTTGATGTCTTCCATCCAGGTGTTGTCTGCTGAGCGAGGTCTGTC
GCGTCAAACCTTCTTGCCGTCGATGATCAGTTTTTGGTTGGAAGCAGAGAAGCTTTGGGAC
TTGTCTGCCGATGTTCTGTCACGCGGAGCTTCACGACGAAAACTCGCCCTTGCTTGCTGC
AAACTGAAGACCCCTTCCCTAGTGGCCGAGCGATCGACACCAAGCACTTGAAACTCGAAC
TTACCGTCTCTGCACCGGGGACCCAGCGGGGGCGACGGCAGGCCCTACATGCTTTGGCTTC
GTCGGCGCGCTTGCCCTTGAGGGGACCGACGCTGCCGTGTTCTGACTCCGCGACGGTCTTC
TTGTCTGCCGTCGTTGCCGCCGCTGGCGATGGCAATCAGGACCACCACTACGGCTCCGGCG
CCTAGGATCCACTTCTTATCGGACTTCTTCTGGCGGCTGGGCTTACGGGCTGGCCAACG
CCGGGTGGCGGCGCGGGAATGGCGCATAACTTTCGGTCCACGCTGTGCCGTCTGAAGTAC
CGCTGGCGGCTCGGATTAGATGGATCGGGATACCAACCGCTGTTGGCTGCGTCATGAAG
TCCCCTTGCTACTTAGCTGACCTATCTACAGGCTGGGTCTAGCATAACCGCAGCGTCTGGAC
AAGGCGTGGAGGAATCGCGTCTCGGACTTATGCAACTCCTTCAAAACCGGCGTCTCGCGCCG
CGTGTGAAACGCAGGTCAATCCGCACCGGGATGGTGATCGGTTCAAGTCGTCCGACCATG
GGCGGTTGGGGACCCGGACACTCGAGACATCACCCCTAGCTGATATCATGCGGTAGTGCG
GAAATGGGAGGTTGACCTGACTCTCATCGAAGCCTGGATGGATGCCCTCGATGACGAGGA
GTACGACAACCTTGATAGCAGCGCTCGAGCAGTTGGAGGAACACGGTCCAATTACCCGGCG
GCCGTTTGTGGACACCCCTGAAGGGTCAAGGCACCCGAACATGAAGGAGCTCCGTCCGCG
CCCCACGAAAGCTGGAGCCACATTCTCGCTGCTATTCGCCTTCGATACCCGGTCTCGGGG
GATCATGTTGATCGCTGGAGACAAGGCGGGCAATTGGTCCAAGTGGTATGCCAAGCACAT
TCCCATTGCCGACGAGCTCTTCGATGCTCACCAAAAGCGTTTACACAAGGCAGCAGCCAA
AGCCACCAATCGGAAACCAAGGAAGGGAAAGAAACGATGACCAATCTTGATGACATGCGC
CGTCCGCGTCCCGCAACCGGACCCGATCGACGCGATCAAGGCGGAGATGGACCGCGAG
GTTGCCAGTACCGTCTCCGCGAAGTGCAGGAGGCTGCCGGCTACACGCAGACGACTCTC
GCTGCGGCTATTGGCGTCCGGCAGAACCGCGTCTCGCAGATGGAACATGGCGATCTGGGC
ACGAGCCGGGTCTGACACTCTCCGCAAGTACGTGGAAGCGACTGGGGGTGAGCTGGAAGTG
TCCGTCAAGCGTCCGGACGGGTACGGGTTCTCCTCAGCCTGTAAAGCGCGACGACCGAG
ACCCAGGGCGAAGGCTTCGAGAACGGTGTCCAGGTACCGGCTGCGGCTTGTGATTCTCGG
GTGCCCTCGGCGCTCAGAAGCAGTCTGAATGACGGGGCCATCGATACAGAATCGACGGAGA
ACCGAAGCAGTACAACAGATCTCGTCTGCACATCGGCCTCAACTCGATCGCGGCACAGATC
AGGTAACCGTATTCTCGGACGCTCGCCAAGACCGACTCCGATGCAACACGATCACCCGTCT
AGCACGGCTAGAGTCACCTGTCTGGACTGTCTGCGGACCGCTGTCTGCCACCGAAGACGAC
GAGGACACCACGGCGAAGTACACCC

FIGURE 3



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FIGURE 4

cattle 850 cacttcttatcggaacttcttctggeggtgggcttcacgggctggccaacgccgggtggcggcgggaa
DMC531 →

cattle 920 atggcgcataactttcggtccacgctgtgccgtcgaagtaccgctggcggtcggattagatggatcggg

cattle 990 ataccaacccgctggttggtgcgtcatGAAGTCCCCTTGCTACTTAGCTGACCTATCTACAGGCTGGGTC
sheep 1GCTTGACAACGTCATTGAGAAATCCCCTTGCTACTTAGCTGACCTATCTACAGGCTGGGTC
DMC529 →
DMC136 →

cattle 1060 AGCATAACCGCAGCGTCGGACAAGGCGTGGAGGAATCGCGTCGCGACTTATGCAACTCCTTCAAAACCGG
sheep 61 AGCATAATCGCAGCGTCGGACAAGGCGTGGAGGAATCGCGTCGCGACTTATGCAACTCCTTCAAAACCGG

cattle 1130 CGTCGCGCGCCCGTGTGAAACGCAGGTCAATCCGCACCGGGATGGTGATCGGTTCAAGTCGTCCGACCAT
sheep 131 CGTCGCGCGCCCGTGTGAAACGCAGGTCAATCCGCACCGGGATGGTGATCGGTTCAAGTCGTCCGACCAT
DMC533 ←

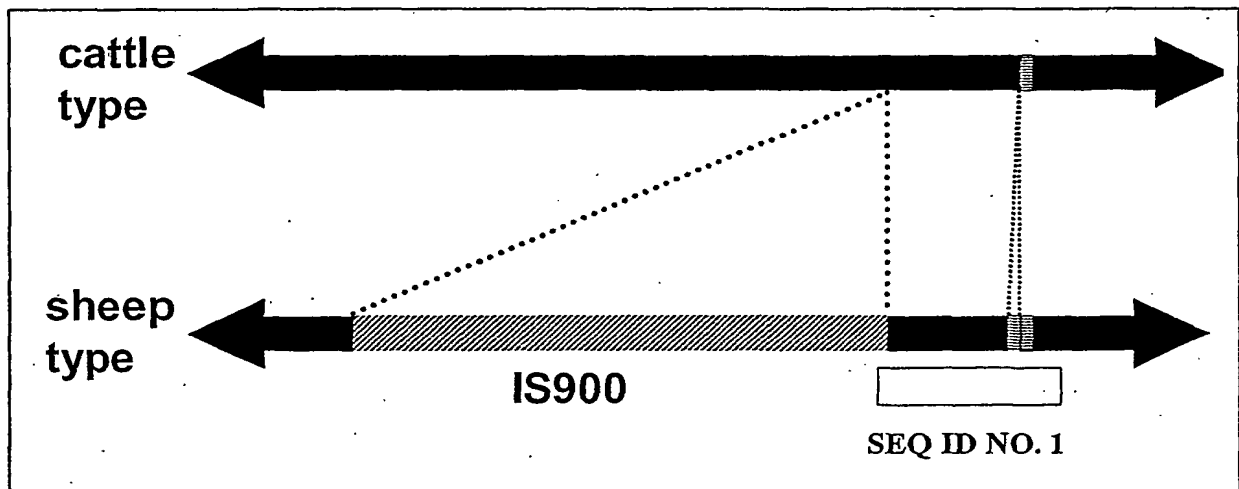
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sheep 201 GGGCGGTTGGGGACCCGGACACTCGAGACATCACCCCTAGCTGATATCAGCTTTAGCTGATATCATGCGG

cattle 1254 TAGTGCGGAAATGGGAGGTTGACCTGACTCTCATCGAAGCCTGGATGGATGCCCTCGATGACGAGGAGTA
sheep 271 TAGTGCGGAAATGGGAGGTTGACCTGACTCTCATCGAAGCCTGGATGGATGCCCTCAATGACGttgtcaa
DMC505 ←
3' end of DMC136 ←

cattle 1324 CGACAACTTGATAGC
sheep 341 gc.....

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FIGURE 5



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FIGURE 6

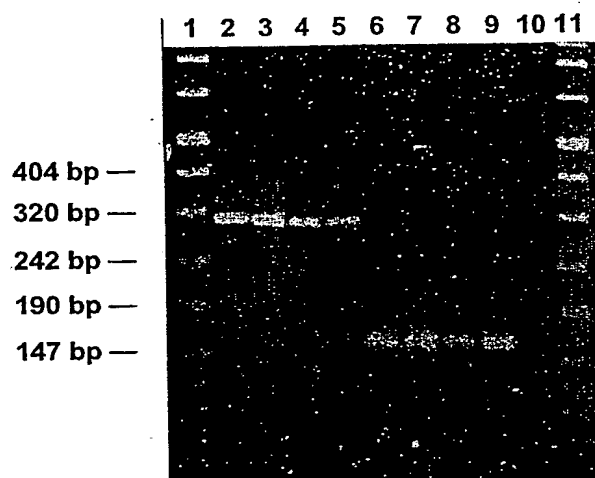


FIGURE 7

